



1999 Toxics Release Inventory

NORTH DAKOTA

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	2,441,712	10,722,141	13,163,853
Air Emissions	2,276,538	1,497,145	3,773,683
Surface Water Discharges	162,418	62,731	225,149
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	2,756	9,162,265	9,165,021
Off-site Releases (Transfers Off-site to Disposal)*	153,450	10,338,610	10,492,060
Total On- and Off-site Releases	2,595,162	21,060,751	23,655,913
Recycled On-site	2,480	0	2,480
Recycled Off-site	520,138	1,300	521,438
Energy Recovery On-site	0	0	0
Energy Recovery Off-site	41,491	0	41,491
Treated On-site	4,053,454	1,833,400	5,886,854
Treated Off-site**	528,994	0	528,994
Quantity Released On- and Off-site***	2,543,318	20,947,013	23,490,331
Total Production-related Waste Managed	7,689,875	22,781,713	30,471,588
Total Non-production-related Waste Managed	3	5	8

Transfers Off-site for Further Waste Management/Disposal

Recycling	550,486	1,300	551,786
Energy Recovery	65,892	0	65,892
Treatment	1,696	0	1,696
Publicly Owned Treatment Works (POTWs)	562,563	0	562,563
Metals and Metal Compounds*	286	0	286
Non-metal TRI Chemicals**	562,277	0	562,277
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	156,205	10,338,610	10,494,815
Total Transfers Off-site for Further Waste Management/Disposal	1,336,842	10,339,910	11,676,752

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

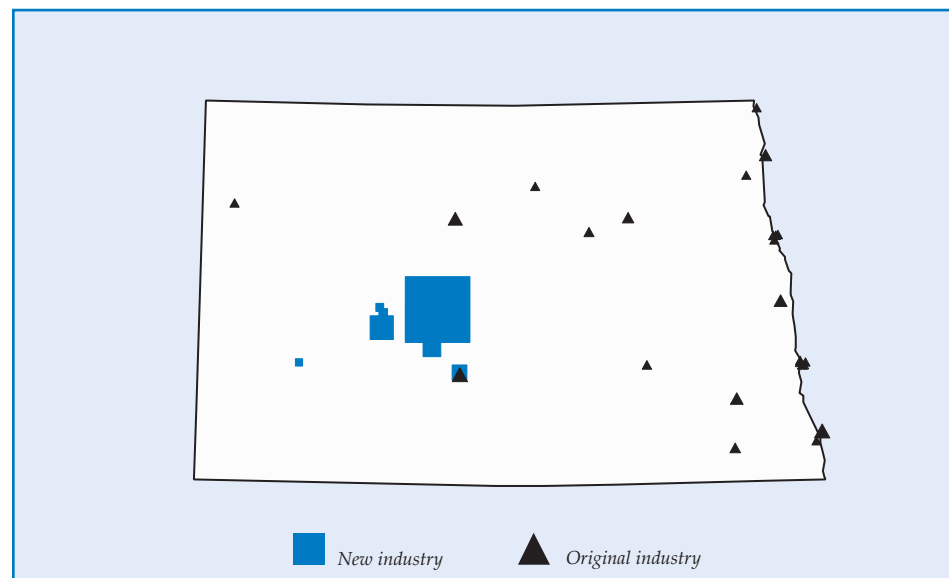
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
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The largest marker in the state map represents the largest facility for on-site releases in the state of North Dakota. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	633,666
Square Miles	68,994
Total Facilities	44
Total Forms	171
Form As	24

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	47	28	40
Pounds	2,595,162	21,060,751	23,655,913
National Rank for Total On-site Releases**			
Rank	47	35	42
Pounds	2,441,712	10,722,141	13,163,853
National Rank for Total Releases within State***			
Rank	47	28	40
Pounds	2,594,988	21,053,464	23,648,452
National Rank for Production-related Waste Managed			
Rank	49	34	46
Pounds	7,689,875	22,781,713	30,471,588

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	783,195	15,546	0	750	110	799,601	0	0	110
110-54-3	n-Hexane	633,600	0	0	0	0	633,600	0	0	0
100-42-5	Styrene	197,872	5	0	0	0	197,877	0	0	0
--	Nitrate compounds	0	146,806	0	0	0	146,806	0	0	0
--	Glycol ethers	103,805	0	0	0	0	103,805	0	0	0
78-93-3	Methyl ethyl ketone	99,811	1	0	0	0	99,812	0	0	0
1330-20-7	Xylene (mixed isomers)	73,758	0	0	0	6	73,764	0	0	6
7664-39-3	Hydrogen fluoride	71,500	0	0	0	0	71,500	0	0	0
108-88-3	Toluene	66,122	0	0	1	3	66,126	0	0	3
115-07-1	Propylene	61,000	0	0	0	0	61,000	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
--	Barium compounds	38,649	24,750	0	6,510,000	8,134,600	14,707,999	0	8,127,900	6,700
--	Manganese compounds	14,521	16,410	0	1,421,700	1,308,808	2,761,439	0	1,308,288	520
7664-39-3	Hydrogen fluoride	572,532	5	0	0	0	572,537	0	0	0
7664-93-9	Sulfuric acid	507,770	0	0	0	0	507,770	0	0	0
--	Arsenic compounds	6,457	9	0	148,740	206,388	361,594	0	206,382	6
7647-01-0	Hydrochloric acid	327,864	5	0	0	0	327,869	0	0	0
7440-39-3	Barium	3,108	0	0	290,000	4,300	297,408	0	4,300	0
--	Chromium compounds	4,484	271	0	105,100	183,104	292,959	0	183,104	0
--	Copper compounds	654	20,761	0	108,400	163,061	292,876	0	163,022	39
--	Antimony compounds	1,305	5	0	143,000	48,000	192,310	0	48,000	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
BP Amoco Mandan Refy., Mandan, Morton	404,072	20,535	0	0	0	2,006	426,613	46	4,865
Minn-Dak Farmers Co-Op., Wahpeton, Richland	298,825	127,583	0	0	0	0	426,408	0	0
ADM Processing, Velva, Mc Henry	340,000	0	0	0	0	0	340,000	0	0
American Crystal Sugar Co., Hillsboro, Traill	255,450	250	0	0	0	0	255,700	0	0
ADM Northern Sun Div., Enderlin, Ransom	244,100	0	0	0	0	0	244,100	0	0
American Crystal Sugar Co., Drayton, Pembina	208,230	14,000	0	0	0	750	222,980	0	0
Nordic Fiberglass Inc., Devils Lake, Ramsey	159,588	0	0	0	0	0	159,588	0	0
Melroe Co., Gwinner, Sargent	102,755	0	0	0	0	0	102,755	24,106	0
Sioux Mfg. Corp., Fort Totten, Benson	68,703	0	0	0	0	0	68,703	0	0
Case Corp., Fargo, Cass	50,460	45	0	0	0	0	50,505	1,127	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Great River Energy, Coal Creek Station, Underwood, Mc Lean	627,525	1,515	0	0	0	4,295,600	4,924,640	1,343,800	0
Leland Olds Station, Stanton, Mercer	137,769	1,401	0	0	0	2,314,940	2,454,110	755,200	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	35,610	0	0	0	0	1,336,900	1,372,510	362,930	7,287
Milton R. Young Station, Center, Oliver	155,895	0	0	0	0	747,600	903,495	2,815,779	0
R.M. Heskett Station, Mandan, Morton	323,607	5	0	0	0	322,000	645,612	5,000	0
Great River Energy Stanton Station, Stanton, Mercer	93,305	59,810	0	0	0	0	153,115	754,614	0
Antelope Valley Station, Beulah, Mercer	122,512	0	0	0	0	0	122,512	4,294,000	0
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	90,619	90,619	0	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	54,606	54,606	0	0
HCI Dyce Chemical Inc., Dickinson, Stark	922	0	0	0	0	0	922	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
BP Amoco Mandan Refy., Mandan, Morton	1,710	369	0	4	1,052,000	171	430,730	1,484,984	0
Minn-Dak Farmers Co-Op., Wahpeton, Richland	0	0	0	0	2,617,519	0	426,408	3,043,927	0
ADM Processing, Velva, Mc Henry	0	0	0	0	0	0	340,000	340,000	0
American Crystal Sugar Co., Hillsboro, Traill	0	0	0	0	255,200	0	255,200	510,400	0
ADM Northern Sun Div., Enderlin, Ransom	0	0	0	0	0	410	244,100	244,510	0
American Crystal Sugar Co., Drayton, Pembina	0	0	0	0	100,706	0	221,480	322,186	0
Nordic Fiberglass Inc., Devils Lake, Ramsey	0	0	0	0	0	0	159,588	159,588	1
TIC United Corp. Wil-Rich Div., Wahpeton, Richland	0	110,210	0	1,530	0	0	143,806	255,546	0
Melroe Co., Gwinner, Sargent	0	0	0	0	0	102,505	102,749	205,254	0
Cass Clay Creamery Inc., Fargo, Cass	0	0	0	0	0	0	64,000	64,000	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Great River Energy, Coal Creek Station, Underwood, Mc Lean	0	0	0	0	202,400	0	6,259,400	6,461,800	0
Antelope Valley Station, Beulah, Mercer	0	0	0	0	0	0	4,409,100	4,409,100	0
Milton R. Young Station, Center, Oliver	0	0	0	0	0	0	3,651,000	3,651,000	0
Leland Olds Station, Stanton, Mercer	0	0	0	0	0	0	3,228,600	3,228,600	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0	0	0	0	1,054,000	0	1,689,170	2,743,170	0
Great River Energy Stanton Station, Stanton, Mercer	0	0	0	0	0	0	908,500	908,500	0
R.M. Heskett Station, Mandan, Morton	0	1,300	0	0	577,000	0	655,096	1,233,396	5
Falkirk Mining Co., Underwood, Mc Lean	0	0	0	0	0	0	90,619	90,619	0
Coteau Properties Co. Freedom Mine, Beulah, Mercer	0	0	0	0	0	0	54,606	54,606	0
HCI Dyce Chemical Inc., Dickinson, Stark	0	0	0	0	0	0	922	922	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.